

TITLE: DSP-16 DUAL-SPECIFICITY PHOSPHATASE
Inventors: Ralf M. Luche et al. Docket No. 2000-134
EXPRESS MAIL NO. EL 897872314US

Figure 1

1 GAGAGAAGGA GAAGATAATA TACTGAAAAG AAGAGGGAGGA GGAGAGCGAC GGGACGGGAC
61 GCGAGCGGGGA GCGCAGCCGC CCTCTCGGCT CCGCGGCGGC GCCTCGCAAG TCCGGGAGGC
121 GAGGGGGGGCC CGAGGGGAGA CGCGTGTGACA ACTTCGTTT CCCTCTGAGG GAATTGGGAG
181 GTCGGCGGCC CCAAAGCTT TCAGTCCAGT GTAAAGCTGT TGGAGCGCGG GAGCAAAGGT
241 AAAGAAATGAT GTAATGCCGT GGCTGCTCCA AAGCATCTTT TGTTGTGGAA TGGTTATTCC
301 AGTCATCTCT TTATGAATCA AATGTGAGGG GCTGCTTGT GGACGGAGTC CTTTGCAAGA
361 GCACATCAAC GGGAAAGAGA AAGAGACATT CACTTGGAGG GCTCTGCTG AAAATGGTT
421 TAACTCTCCT TTTGCCAGTC ACCACCAAGCC TGACCTCATA CACTTTTAGT ACAATGGAGT
481 GGCTGAGCCT TTGAGCACAC CACCATTACA TCATCGTGGC AAATTAAGA AGGAGGTGGG
541 AAAAGAGGAC TTATTGTTGT CATGGCCAT GAGATGATTG GAACTCAAAT TGTTACTGAG
601 AGGTTGGTGG CTCTGCTGGA AAGTGGAAAG GAAAAAGTGC TGCTAATTGA TAGCCGGCA
661 TTTGTGGAAT ACAATACATC CCACATTTG GAAGCCATTA ATATCAACTG CTCCAAGCTT
721 ATGAAGCGAA GGTGCAACA GGACAAAGTG TTAATTACAG AGCTCATCCA GCATTAGCG
781 AAACATAAGG TTGACATTGA TTGCACTCAG AAGGTTGAG TTTACGATCA AAGCTCCAA
841 GATGTTGCCT CTCTCTCTTC AGACTGTTT CTCACTGTAC TTCTGGTAA ACTGGAGAAG
901 AGCTTCAACT CTGTTCACCT GCTTGCAGGT GGGTTGCTG AGTTCTCTCG TTGTTCCCT
961 GGCCCTCTGTG AAGGAAAATC CACTCTAGTC CCTACCTGCA TTTCTCAGCC TTGCTTACCT
1021 GTTGCCAACA TTGGGCAAC CCGAATTCTT CCCAATCTT ATCTTGGCTG CCAGCGAGAT
1081 GTCCTCAACA AGGAGCTGAT GCAGCAGAAAT GGGATTGGTT ATGTGTTAA TGCCAGCAAT
1141 ACCTGTCCAA AGCCTGACTT TATCCCCAG TCTCATTTC TGCGTGTGCC TGTGAATGAC
1201 AGCTTTGTG AGAAAATTT GCCGTGGTG GACAAATCAG TAGATTTCAT TGAGAAAGCA
1261 AAAGCCTCCA ATGGATGTGT TCTAGTGCAC TGTTTAGCTG GGATCTCCCG CTCCGCCACC
1321 ATCGCTATCG CCTACATCAT GAAGAGGATG GACATGTCTT TAGATGAAGC TTACAGATT
1381 GTGAAAGAAA AAAGACCTAC TATATCTCCA AACTCAATT TTCTGGGCA ACTCCTGGAC
1441 TATGAGAAGA AGATTAAGAA CCAGACTGGA GCATCAGGGC CAAAGAGCAA ACTCAAGCTG
1501 CTGCACCTGG AGAAGCCAA TGAAACCTGTC CCTGCTGTCT CAGAGGGTGG ACAGAAAAGC
1561 GAGACGCCCG TCAGTCCACC CTGTCGGAC TCTGCTACCT CAGAGGCAGC AGGACAAAGG
1621 CCCGTGCATC CCCGCCAGCGT GCCCAGCGTG CCCAGCGTGC AGCCGTGCGT GTTAGAGGAC
1681 AGCCCGCTGG TACAGGCCTG CAGTGGCTG CACCTGTCCG CAGACAGGCT GGAAGACAGC
1741 AATAAGCTCA AGCGTTCCCT CTCTCTGGAT ATCAAATCAG TTTCATATTG AGCCAGCATG
1801 GCAGCATCCT TACATGGCTT CTCCCTCATCA GAAGATGCTT TGGAAATACTA CAAACCTTCC
1861 ACTACTCTGG ATGGGACCAA CAAGCTATGC CAGTCTCTCC CTGTTTCAGGA ACTATCGGAG
1921 CAGACTCCCG AAACCGATCC TGATAAGGAG GAAGCCAGCA TCCCCAAGAA GCTGCAGACC
1981 GCCAGGCCCT CAGACAGCC GAGCAAGCGA TTGCAATTGG TGCAACCAG CAGCAGTGGC
2041 ACCGCCAGA GTTCCCTTT ATCTCCACTG CATCGAAGTG GGAGCGTGG GGACAATTAC
2101 CACACCAGCT TCCCTTTCCG CCTTTCCACC AGCCAGCAGC ACCTCACGAA GTCTGCTGGC
2161 CTGGGCCCTA AGGGCTGGCA CTCGGATATC TTGGCCCCCC AGACCTCTAC CCCTTCCCTG
2221 ACCAGCAGCT GGTTATTTGC CACAGAGTCC TCACACTTCT ACTCTGCCTC AGCCATCTAC
2281 GGAGGCAGTG CCAGTTACTC TGCCCTACAGC TGAGCCAGC TGCCCCTTG CGGAGACCAA
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2401 CATGAAGAGA GCCCCTTGAA AAAGCAGTTT AAACCGAGAA GCTGCCAAAT GGAATTGGA
2461 GAGAGCATCA TGTCAGAGAA CAGGTACCGG GAAGAGCTGG GGAAAGTGGG CAGTCAGTCT
2521 AGCTTTCTGG GCAGCATGGA AATCATTGAG GTCTCCTGAG AAGAAAGACA CTTGTGACTT
2581 CTATAGACAA TTTTTTTTC TTGTTCACAA AAAAATTCCC TGTAATCTG AAATATATAT
2641 ATGTACATAC ATATATATTT TTGGAAAATG GAGCTATGGT GTAAAAGCAA CAGGTGGATC
2701 AACCCAGTT TGACTCTCTT AACATCTGCA TTTGAGAGAT CAGCTAATAC TTCTCTAAC
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2881 CCCTACCATT TTCCACGTTG TGCTACTAAG AGATCTAAA TATTAGTCTT TGTCCGGACC
2941 CTTCCATAGT ACACCTTAGC GCTGAGACTG AGCCAGCTTG GGGGTCAGGT AGGTAGACCC
3001 TGTTAGGGAC AGAGCCTAGT GGTAAATCCA AGAGAAATGA TCCTATCCAA AGCTGATTCA
3061 CAAACCCACG CTCACCTGAC AGCCGAGGGG CACGAGCATC ACTCTGCTGG ACGGACCAT
3121 AGGGGCCCTG CCAAGGTCTA CCTTAGAGCA AACCCAGTAC CTCAGACAGG AAAGTCGGGG
3181 CTTTGACAC TACCATATCT GGTAGCCCAT TTTCTAGGCA TTGTGAATAG GTAGGTAGCT
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3301 GAGATAATT TTTTTCTTC TCAGCTTAT GAAGAGAAGG GAAACTGTCT AGGATTCA
3361 TGAACCCACCA GGAACCTGGC AACATCACGA TTAAAGCTAA GTTGGGAGG CTAACGAGTC
3421 TACCTCCCTC TTGTAATC AAAGAATTGT TTAAATGGG ATTGTCAATC CTTAAATAA
3481 AGATGAACATT GGTTC

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Figure 2.

MAHEMIGTQIVTERLVALLESGTEKVLLIDSRRPVEYNTHILEAININCSKLMKRRLQQDKVLITELIQHSAKHVDIDCSQKVYYDQSSQDVASLSSDCFLTVLLGKLEKSFNSVHLLAGGFAEFSRCFPGLCEGKSTLVPTCISOPCLPVANIGPTRILPNLYLGCQRDVLNKELMQQNGIGYVLNASNTCPKPDFIPESHFLRVPVNDSFCEKILPWLDKSVDFIEKAKASNGCVLVHCLAGISRSATIAIAYIMKRMDSLDEAYRFVKEKRPTISPNNFLGQLLDYEKKIKNQTGASGPKSKLKLHLEKPNEPVPAVSEGGQKSETPLSPPCADSATSEAAGQRPVHPASVPSVQPSLLEDSPLVQALSGLHLADRLEDNSNLKRSFSLDIKSVSYASMAASLHGFSSEDALEYYPSTTLDGTNKLCQFSPVQELSEQTPETSPDKEEASIPKKLQTARPSSDSQSKRLHSVRTSSSGTAQRSLLSPLHRSGSVEDNYHTSFLFGLSTSQQHLTKSAGLGLKGWHSDILAPQTSTPSLTSSWYFATESSHFYASAIYGGASAYSAYSCSQLPTCDQVYSVRRRQKPSDRADSRRSWHEESPFEKQFKRRSCQMEFGESIMSENRSREELGVGSQSSFSGSMEIEVS

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Figure 3.

1 GAGAGAAGGA GAAGATAATA TACTGAAAAG AAGAGGGAGGA GGAGAGCGAC GGGACGGGAC
61 GCGAGCGGGGA CGCGAGCCGC CCTCTCGGCT CGCGGGCGGC GCCTCGCAAG TCCGGGAGGC
121 GAGGGGGGCC CGAGGGGAGA CGCCGTGACA ACTTCGTTT CCCTCTGAGG GAATTGGGAG
181 GTCGGCGGCC CCAAAAGCTT TCAGTCCAGT GTAAAGCTGT TGAGCGCGG GAGCAAAGGT
241 AAAGAATGAT GTAATGCGCT GGCTGCTCCA AAGCATCTT TGTTGTGGAA TGGTTATTCC
301 AGTCATCTCT TTATGAATCA AATGTGAGGG GCTGCTTGT GGACGGAGTC CTTTGCAAGA
361 GCACATCAAC GGGAAAGAGA AAGAGACATT CACTGGAGG GCTCTTGCTG AAAATGGGTT
421 TAACTCTCCT TTTGCCAGTC ACCACCAGCC TGACCTCATA CACTTTAGT ACAATGGAGT
481 GGCTGAGCCT TTGAGCACAC CACCAATTACA TCATCGTGGC AAATTAAAGA AGGAGGGTGGG
541 AAAAGAGGAC TTATTGTTGT CATGGCCCAT GAGATGATTG GAACTCAAAT TGTTACTGAG
601 AGGTTGGTGG CTCTGCTGGA AAGTGGAACG GAAAAAAGTGC TGCTAATTGA TAGCCGGCCA
661 TTTGTGGAAT ACAATACATC CCACATTTC GAAGCCATTA ATATCAACTG CTCCAAGCTT
721 ATGAAGCGAA GGTTGCAACA GGACAAAGTG TTAATTACAG AGCTCATCCA GCATTCAAGCG
781 AAACATAAGG TTGACATTGA TTGCAGTCAG AAGGTTGTTAG TTTACGATCA AAGCTCCAA
841 GATGTTGCCT CTCTCTCTTC AGACTGTTT CTCACTGTAC TTCTGGTAA ACTGGAGAAG
901 AGCTTCAACT CTGTTCACCT GCTTGCAGGA GCTGATGCAG CAGAATGGGA TTGGTTATGT
961 GTTAAATGCC AGCAATACCT GTCCAAAGCC TGACTTTATC CCCGAGTCCTC ATTTCTCGC
1021 TGTGCTGTG AATGACAGCT TTTGTGAGAA AATTTCGCG TGTTGGACA AATCAGTAGA
1081 TTTCATTGAG AAAGCAAAG CCTCCAATGG ATGTGTTCTA GTGCACTGTT TAGCTGGAT
1141 CTCCCCTCCTC GCCACCATCG CTATGCCCTA CATCATGAAG AGGATGGACA TGTCTTAGA
1201 TGAAGCTTAC AGATTGTGA AAGAAAAAG ACCTACTATA TCTCCAAACT TCAATTTC
1261 GGGCAACTC CTGGACTATG AGAAGAAGAT TAAGAACCG ACTGGAGCAT CAGGGCCAAA
1321 GAGCAAACCTC AAGCTGCTGC ACCTGGAGAA GCCAAATGAA CCTGTCCTG CTGTCAGA
1381 GGGTGGACAG AAAAGCGAGA CGCCCCCTCAG TCCACCCCTGT GCCGACTCTG CTACCTCAGA
1441 GGCAGCAGGA CAAAGGCCCG TGCATCCCGC CAGCGTGCCA AGCGTGCAGCC GCGTGCAGCC
1501 GTCGCTGTTA GAGGACAGCC CGCTGGTACA GGCGCTCAGT GGCGTGCACC TGTCCGCAGA
1561 CAGGCTGGAA GACAGCAATA AGCTCAAGCG TTCCTCTCTC TGGAATATCA AATCAGTTTC
1621 ATATTCAAGCC AGCATGGCAG CATCCTTACA TGGCTTCTCC TCATCAGAAG ATGCTTGGA
1681 ATACTACAAA CCTCTTCACTA CTCTGGATGG GACCAACAAG CTATGCCAGT TCTCCCTGT
1741 TCAGGAACCTA TCGGAGCAGA CTCCCGAAC CAGTCCTGAT AAGGAGGAAG CCAGCATCCC
1801 CAAGAAGCTG CAGACCGCCA GGCCTTCAGA CAGCCAGAGC AAGCGATTGC ATTGGTCTAG
1861 AACCAAGCAGC AGTGGCACCG CCCAGAGGTC CCTTTATCT CCACTGCATC GAAGTGGGAG
1921 CGTGGAGGAC ATTACCCACA CCAGCTTCTT TTTCGGCCTT TCCACCAAGC AGCAGCACCT
1981 CACGAAGTCT GCTGGCCTGG GCCTTAAGGG CTGGCACTCG GATATCTGG CCCCCCAGAC
2041 CTCTACCCCT TCCCTGACCA GCAGCTGGTA TTTGCCACA GAGTCCTCAC ACTTCTACTC
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2401 AAGACACTTG TGACTTCTAT AGACAATTTC TTTTCTTGT TCACAAAAAA ATTCCCTGTA
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2521 AAGCAACAGG TGGATCAACC CAGTTGTTAC TCTCTTAACA TCTGCATTG AGAGATCAGC
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2641 AACCAATTAA TTCAGTGAAT TACACATCTT CTTGTTCTTA AAAAAGCAAG TGTCTTGGT
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2821 TCAGGTAGGT AGACCCCTGTT AGGGACAGAG CCTAGTGGTA AATCCAAGAG AAATGATCCT
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3181 CTGCTAGGA TTCAAGCTGAA CCACCAAGGA CCTGGCAACA TCACGATTAA AGCTAAGGTT
3241 GGGAGGCTAA CGAGTCTACC TCCCTCTTGA TAAATCAAAG AATTGTTAA AATGGGATTG
3301 TCAATCCTT AAATAAAGAT GAACTTGGTT TC

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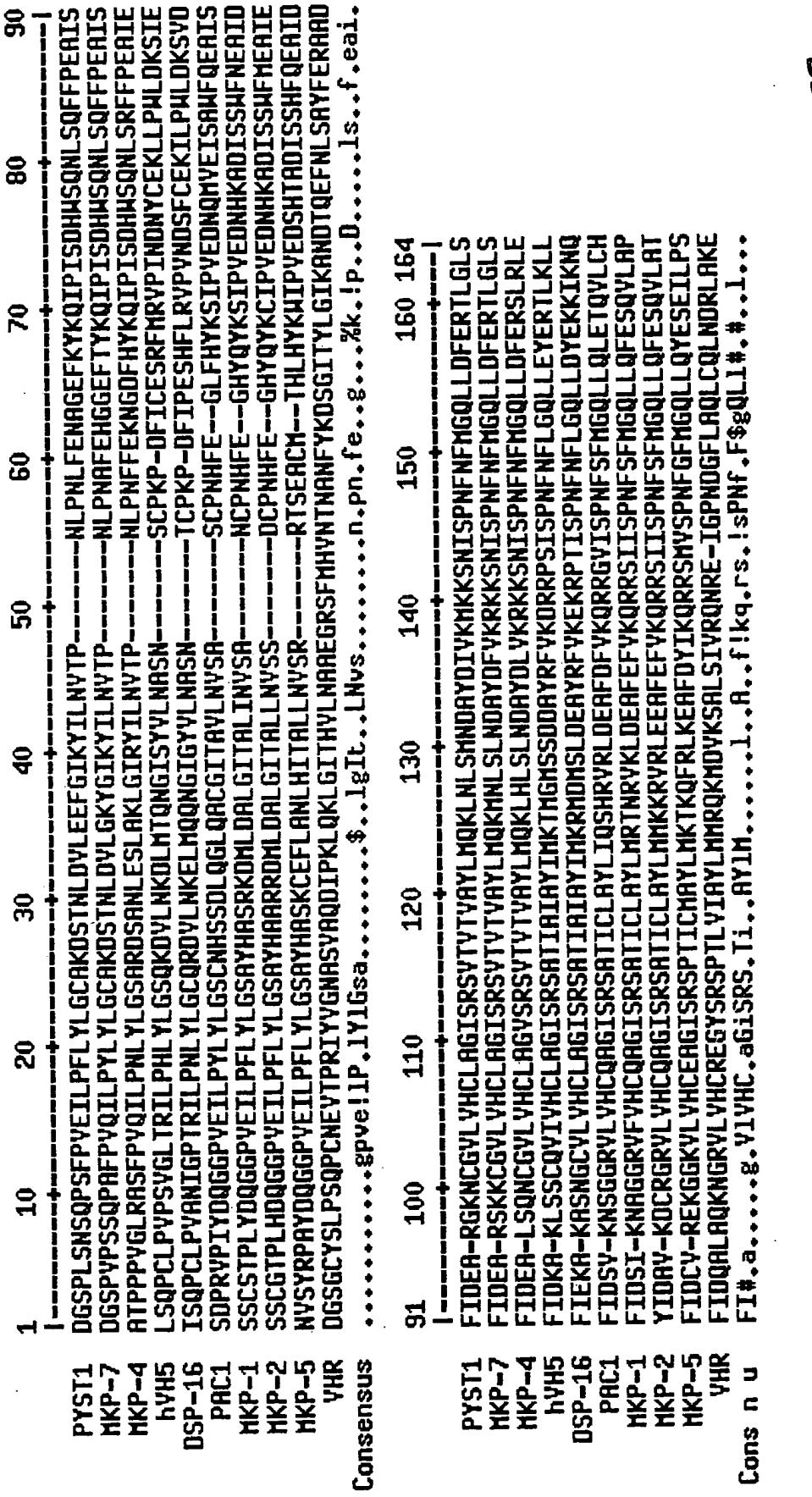
Figure 4.

MLPLSLQTVFSLYFWVNWRRASTLFTCLQELMQQNGIGYVLNASNTCPKPDFIPESHFLRVPNDSFCEKILPWLDK
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GASGPKSKLKLLHLEKPNEPVPAVSEGGQKSETPLSPPCADSATSEAAGQRPVHPASVPSVPSVQPSLLEDSPLVQA
LSGLHLSADRLEDSNKLKRSFSLDIKSVSYSASMAASLHGFSSEDALEYYPSTTLDGTNKLCQFSPVQELSEQTP
ETSPDKEEASIPKKLQTARPSDSQSKRLHSVRTSSSGTAQRSLLSPLHRSGSVEDNYHTSFLFGLSTSQQHLTKSAG
LGLKGWHSDILAPQTSTPSLTSSWYFATESSHFSASAIYGGSASYSAYSQLPTCGDQVYSVRRRQKPSDRADSR
RSWHEESPFEKQFKRRSCQMEFGESIMSENRSREELGVGSQSSFSGSMEIIIEVS

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Figure 5



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